

## Refine Search

### Search Results -

Terms	Documents
L13 not L1	11

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L14

Refine Search

Recall Text

Clear

Interrupt

### Search History

 DATE: Wednesday, May 04, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;</i>			
<i>OP=OR</i>			
<u>L14</u>	L13 not l1	11	<u>L14</u>
<u>L13</u>	L12 and flight	11	<u>L13</u>
<u>L12</u>	L11 and (virtual\$ adj tunnel\$)	141	<u>L12</u>
<u>L11</u>	((virtual\$ adj2 tunnel\$) or (predetermin\$ near3 (path\$ or route))) and @ad<=20040426	51275	<u>L11</u>
<i>DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
<u>L10</u>	20040066441\$	1	<u>L10</u>
<u>L9</u>	20040066441.ap.	0	<u>L9</u>
<u>L8</u>	20040066441.ap.	0	<u>L8</u>
<u>L7</u>	20040066441.apn.	0	<u>L7</u>
<u>L6</u>	20040066441.an.	0	<u>L6</u>
<u>L5</u>	L4	0	<u>L5</u>

<u>L4</u>	20040066441.an/ <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	0	<u>L4</u>
<u>L3</u>	L2 and flight\$	4	<u>L3</u>
<u>L2</u>	L1 and (securit\$ or safe\$)	33	<u>L2</u>
<u>L1</u>	biometric\$ and ((virtual\$ adj2 tunnel\$) or (predetermin\$ near3 (path\$ or route))) and @ad<=20040426	39	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

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Search Results - Record(s) 1 through 10 of 39 returned.

☐ 1. Document ID: US 20040266457 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 39

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040266457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040266457 A1

TITLE: Wireless location gateway and applications therefor

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: 455/456.5; 455/456.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 2. Document ID: US 20040260921 A1

L1: Entry 2 of 39

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260921

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260921 A1

TITLE: Cryptographic method, system and engine for enciphered message transmission

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Treadwell, William S.	Alexandria	VA	US	

US-CL-CURRENT: 713/150

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 3. Document ID: US 20040225899 A1

L1: Entry 3 of 39

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040225899  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040225899 A1

TITLE: Authentication system and method based upon random partial digitized path  
recognition

PUBLICATION-DATE: November 11, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mizrah, Len L.	San Carlos	CA	US	

US-CL-CURRENT: 713/202

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 4. Document ID: US 20040208301 A1

L1: Entry 4 of 39

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040208301  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040208301 A1

TITLE: Dynamic caller ID messaging

PUBLICATION-DATE: October 21, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Urban, Blake R.	Hickory	NC	US	
Whiteq, Isaac D. M.	Groveland	FL	US	
Dickens, James E.	Ocoee	FL	US	
Forsberg, Kevin	Orlando	FL	US	
Sawyer, Charles	Orlando	FL	US	

US-CL-CURRENT: 379/142.17; 379/93.23, 455/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 5. Document ID: US 20040198386 A1

L1: Entry 5 of 39

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040198386  
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040198386 A1

TITLE: Applications for a wireless location gateway

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: 455/456.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 20040153655 A1

L1: Entry 6 of 39

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153655

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040153655 A1

TITLE: Use of public switched telephone network for capturing electronic signatures in on-line transactions

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rolfe, Andrew R.	East Dundee	IL	US	

US-CL-CURRENT: 713/185

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 20040109590 A1

L1: Entry 7 of 39

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040109590

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040109590 A1

TITLE: System and method for counting ridges in a captured print image

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cannon, Gregory L.	Boynton Beach	FL	US	

Smith, David C.

Tequesta

FL

US

US-CL-CURRENT: 382/125

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 8. Document ID: US 20040068464 A1

L1: Entry 8 of 39

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040068464

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040068464 A1

TITLE: Return item early notification and return

PUBLICATION-DATE: April 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Buchanan, Danne	Sandy	UT	US	
Titus, William Ronald	Fruit Heights	UT	US	

US-CL-CURRENT: 705/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 9. Document ID: US 20040066441 A1

L1: Entry 9 of 39

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040066441

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040066441 A1

TITLE: Identification card printer-assembler for over the counter card issuing

PUBLICATION-DATE: April 8, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jones, Robert	Andover	MA	US	
Bi, Daoshen	Boxborough	MA	US	
Mailloux, Dennis	Westminster	MA	US	

US-CL-CURRENT: 347/101

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 10. Document ID: US 20040036212 A1

L1: Entry 10 of 39

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040036212

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040036212 A1

TITLE: Lottery game card and method for conducting a lottery game

PUBLICATION-DATE: February 26, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Walker, Jay S.	Ridgefield	CT	US	
Tulley, Stephen C.	Stamford	CT	US	
Tedesco, Daniel E.	Westport	CT	US	
Jorasch, James A.	Stamford	CT	US	

US-CL-CURRENT: 273/139

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

biometric\$ and ((virtual\$ adj2 tunnel\$) or (predetermin\$ near3 (path\$ or route))) and @ad&lt;=20040426

Documents

39

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**Search Results - Record(s) 11 through 20 of 39 returned.**

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☐ 11. Document ID: US 20040023520 A1**Using default format because multiple data bases are involved.**

L1: Entry 11 of 39

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023520

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040023520 A1

TITLE: Multiple degrees of freedom connectors and adapters

PUBLICATION-DATE: February 5, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schriefer, Tavis D.	Carrollton	TX	US	

US-CL-CURRENT: 439/11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 20040015610 A1

L1: Entry 12 of 39

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015610

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040015610 A1

TITLE: Methodology and components for client/server messaging system

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Treadwell, William Scott	Alexandria	VA	US	

US-CL-CURRENT: 709/246; 709/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 13. Document ID: US 20030221125 A1

L1: Entry 13 of 39

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030221125  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030221125 A1

TITLE: Use of public switched telephone network for authentication and  
authorization in on-line transactions

PUBLICATION-DATE: November 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rolfe, Andrew R.	Itasca	IL	US	

US-CL-CURRENT: 713/201

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 20030213092 A1

L1: Entry 14 of 39

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030213092  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030213092 A1

TITLE: Drive system for a door or window and method of operating same

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fischbach, Stefan	Leonberg		DE	
Hucker, Matthias	Marxzell		DE	
Andraschko, Guenter	Murr		DE	
Augenstein, Joachim	Niefern-Oeschelbronn		DE	

US-CL-CURRENT: 16/52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 20030179913 A1

L1: Entry 15 of 39

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030179913  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030179913 A1

TITLE: Handwritten signature authentication program, method and apparatus

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Murase, Tadashi	Nagoya		JP	
Maeda, Takashi	Nagoya		JP	

US-CL-CURRENT: 382/119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 16. Document ID: US 20030179912 A1

L1: Entry 16 of 39

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030179912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030179912 A1

TITLE: Hand-written signature authentication program, method, and apparatus

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Murase, Tadashi	Nagoya		JP	
Maeda, Takashi	Nagoya		JP	
Matsunaga, Shinya	Nagoya		JP	

US-CL-CURRENT: 382/119

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 17. Document ID: US 20030179910 A1

L1: Entry 17 of 39

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030179910

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030179910 A1

TITLE: Personal choice biometric signature

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wong, Jacob Y.	Goleta	CA	US	

US-CL-CURRENT: 382/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. D
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☐ 18. Document ID: US 20030179909 A1

L1: Entry 18 of 39

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030179909

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030179909 A1

TITLE: Personal choice biometric signature

PUBLICATION-DATE: September 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wong, Jacob Y.	Goleta	CA	US	
Chong, Delano P.	Mountain View	CA	US	

US-CL-CURRENT: 382/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. D
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☐ 19. Document ID: US 20030171939 A1

L1: Entry 19 of 39

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171939

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030171939 A1

TITLE: Method and apparatus for prescreening passengers

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yagesh, John Paul	Gaithersburg	MD	US	
Yagesh, Christopher John	Alexandria	VA	US	
Bender, Christopher Joseph	Arlington	VA	US	

US-CL-CURRENT: 705/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. D
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☐ 20. Document ID: US 20030169290 A1

L1: Entry 20 of 39

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030169290  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030169290 A1

TITLE: User interface in network environment

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nishiyama, Soichi	Kawasaki		JP	
Okude, Naohito	Minato		JP	
Takahashi, Toshiya	Chuo		JP	

US-CL-CURRENT: 715/738

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
biometric\$ and ((virtual\$ adj2 tunnel\$) or (predetermin\$ near3 (path\$ or route))) and @ad<=20040426	39

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)

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Search Results - Record(s) 21 through 30 of 39 returned.

☐ 21. Document ID: US 20030152253 A1

Using default format because multiple data bases are involved.

L1: Entry 21 of 39

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030152253

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030152253 A1

TITLE: Authentication method utilizing a sequence of linear partial fingerprint signatures selected by a personal code

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wong, Jacob Y.	Goleta	CA	US	

US-CL-CURRENT: 382/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 22. Document ID: US 20030093187 A1

L1: Entry 22 of 39

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093187

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093187 A1

TITLE: PFN/TRAC system™ FAA upgrades for accountable remote and robotics control to stop the unauthorized use of aircraft and to improve equipment management and public safety in transportation

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Walker, Richard C.	Waldorf	MD	US	

US-CL-CURRENT: 701/1; 701/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 23. Document ID: US 20030071743 A1

L1: Entry 23 of 39

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030071743

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030071743 A1

TITLE: Aircraft monitoring and incident management system

PUBLICATION-DATE: April 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seah, Moon-Ming	Singapore		SG	
Ng, Chong-Khim	Singapore		SG	
Cheong, Yue-Pui	Singapore		SG	
Lau, Thiam-Beng	Singapore		SG	
Lim, Tau-Fuie	Singapore		SG	
Quek, Gim Pew	Singapore		SG	
Hunter, Richard	Singapore		SG	
Lim, Chong-Jin	Singapore		SG	
Kwan, Yui	Singapore		SG	
Lim, Siew-Lang	Singapore		SG	
Lee, Fook-Sun	Singapore		SG	
Don, Tik-Bin	Singapore		SG	
Ng, Chee-We	Singapore		SG	
Tay, Eng Huat	Singapore		SG	
Chong, Chee Chung	Singapore		SG	
Ng, Yew Liam	Singapore		SG	

US-CL-CURRENT: 340/945; 340/540, 340/573.1, 340/574

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 24. Document ID: US 20030044052 A1

L1: Entry 24 of 39

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044052

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044052 A1

TITLE: Method for comparing fingerprints

PUBLICATION-DATE: March 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Martin, Lionel	Aix En Provence		FR	

US-CL-CURRENT: 382/125

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 25. Document ID: US 20030010830 A1

L1: Entry 25 of 39

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030010830

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030010830 A1

TITLE: Holographic card formats for presentation and security

PUBLICATION-DATE: January 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Curtis, Kevin R.	Longmont	CO	US	

US-CL-CURRENT: 235/491

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 26. Document ID: US 20030005310 A1

L1: Entry 26 of 39

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030005310

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030005310 A1

TITLE: User verification system, and portable electronic device with user verification function utilizing biometric information

PUBLICATION-DATE: January 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shinzaki, Takashi	Kawasaki		JP	

US-CL-CURRENT: 713/186

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 27. Document ID: US 20030004881 A1

L1: Entry 27 of 39

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004881  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030004881 A1

TITLE: Confidential information management system and information terminal for use in the system

PUBLICATION-DATE: January 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shinzaki, Takashi	Kawasaki		JP	
Morihara, Takashi	Kawasaki		JP	

US-CL-CURRENT: 705/51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 28. Document ID: US 20020146347 A1

L1: Entry 28 of 39

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146347  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020146347 A1

TITLE: System and method for sample positioning in a robotic system

PUBLICATION-DATE: October 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McNeil, John	La Jolla	CA	US	

US-CL-CURRENT: 422/63; 422/65, 422/67, 436/43, 436/47, 436/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 29. Document ID: US 20020007459 A1

L1: Entry 29 of 39

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020007459  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020007459 A1

TITLE: Method and apparatus for intentional blockage of connectivity



PUBLICATION-DATE: January 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cassista, Gerard R.	Dracut	MA	US	
Cassista, Philip A.	Nashua	NH	US	

US-CL-CURRENT: 713/200; 379/93.02, 709/229

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 30. Document ID: US 20010031075 A1

L1: Entry 30 of 39

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010031075

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010031075 A1

TITLE: Fingerprint data synthesis method, fingerprint data synthesis apparatus and computer-readable recording medium on which fingerprint data synthesis program is recorded as well as biometric information synthesis method

PUBLICATION-DATE: October 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fujii, Yusaku	Kawasaki		JP	

US-CL-CURRENT: 382/125

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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biometric\$ and ((virtual\$ adj2 tunnel\$) or (predetermin\$ near3 (path\$ or route))) and @ad<=20040426	39

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Search Results - Record(s) 31 through 39 of 39 returned.

☐ 31. Document ID: US 6889098 B1

Using default format because multiple data bases are involved.

L1: Entry 31 of 39

File: USPT

May 3, 2005

US-PAT-NO: 6889098

DOCUMENT-IDENTIFIER: US 6889098 B1

TITLE: Method and apparatus for managing attraction admission

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laval; Bruce G.	Windermere	FL		
Hale; Gregory B.	Lake Buena Vista	FL		

US-CL-CURRENT: 700/19; 700/20, 705/5, 705/6

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw. D.</a>
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☐ 32. Document ID: US 6830192 B1

L1: Entry 32 of 39

File: USPT

Dec 14, 2004

US-PAT-NO: 6830192

DOCUMENT-IDENTIFIER: US 6830192 B1

TITLE: Substrate which is made from paper and is provided with an integrated circuit

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw. D.</a>
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☐ 33. Document ID: US 6695213 B2

L1: Entry 33 of 39

File: USPT

Feb 24, 2004

US-PAT-NO: 6695213

DOCUMENT-IDENTIFIER: US 6695213 B2

TITLE: Holographic card formats for presentation and security

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 34. Document ID: US 6676126 B1

L1: Entry 34 of 39

File: USPT

Jan 13, 2004

US-PAT-NO: 6676126

DOCUMENT-IDENTIFIER: US 6676126 B1

TITLE: Lottery game card and method for conducting a lottery game

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 35. Document ID: US 6482652 B2

L1: Entry 35 of 39

File: USPT

Nov 19, 2002

US-PAT-NO: 6482652

DOCUMENT-IDENTIFIER: US 6482652 B2

TITLE: Biological particle sorter

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 36. Document ID: US 6429016 B1

L1: Entry 36 of 39

File: USPT

Aug 6, 2002

US-PAT-NO: 6429016

DOCUMENT-IDENTIFIER: US 6429016 B1

TITLE: System and method for sample positioning in a robotic system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 37. Document ID: US 6241288 B1

L1: Entry 37 of 39

File: USPT

Jun 5, 2001

US-PAT-NO: 6241288

DOCUMENT-IDENTIFIER: US 6241288 B1

TITLE: Fingerprint identification/verification system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 38. Document ID: US 6115752 A

L1: Entry 38 of 39

File: USPT

Sep 5, 2000

US-PAT-NO: 6115752

DOCUMENT-IDENTIFIER: US 6115752 A

TITLE: System and method for server selection for mirrored sites

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 39. Document ID: US 5935071 A

L1: Entry 39 of 39

File: USPT

Aug 10, 1999

US-PAT-NO: 5935071

DOCUMENT-IDENTIFIER: US 5935071 A

TITLE: Ultrasonic biometric imaging and identity verification system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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Terms

biometric\$ and ((virtual\$ adj2 tunnel\$) or (predetermin\$ near3 (path\$ or route))) and @ad&lt;=20040426

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Search Results - Record(s) 1 through 10 of 11 returned.

☐ 1. Document ID: US 20040117339 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 11

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117339

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040117339 A1

TITLE: Arrangement in a router of a mobile network for optimizing use of messages carrying reverse routing headers

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thubert, Pascal	La Colle Sur Loup		FR	
Molteni, Marco	Antibes		FR	
Wetterwald, Patrick	Cagnes sur Mer		FR	
Auerbach, David	Biot		FR	

US-CL-CURRENT: 707/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 2. Document ID: US 20040081152 A1

L14: Entry 2 of 11

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040081152

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040081152 A1

TITLE: Arrangement for router attachments between roaming mobile routers in a clustered network

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thubert, Pascal	La Colle Sur Loup		FR	
Wetterwald, Patrick	Cagnes sur Mer		FR	

Molteni, Marco	Antibes	FR
Forster, David Charlton	Reading	GB

US-CL-CURRENT: 370/392; 370/400

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20040056762 A1

L14: Entry 3 of 11

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040056762  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040056762 A1

TITLE: Virtual rumble strip

PUBLICATION-DATE: March 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rogers, William H.	Eden Prairie	MN	US	

US-CL-CURRENT: 340/425.5; 340/435, 701/23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20040015274 A1

L14: Entry 4 of 11

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015274  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040015274 A1

TITLE: Flight guidance system providing perspective flight guidance symbology

PUBLICATION-DATE: January 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wilkins, Robert Ryan JR.	Wilmington	DE	US	
Harris, Kenneth Scott	Wilmington	DE	US	

US-CL-CURRENT: 701/3; 701/211

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20030227395 A1

L14: Entry 5 of 11

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030227395  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030227395 A1

TITLE: Vehicular safety system and method

PUBLICATION-DATE: December 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zeineh, Rashid A.	Fullerton	CA	US	

US-CL-CURRENT: 340/988; 340/539.13, 340/573.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20030222887 A1

L14: Entry 6 of 11

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030222887  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030222887 A1

TITLE: Control system providing perspective flight guidance

PUBLICATION-DATE: December 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wilkins, Robert Ryan JR.	Wilmington	DE	US	
Harris, Kenneth Scott	Wilmington	DE	US	

US-CL-CURRENT: 345/618

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20030123481 A1

L14: Entry 7 of 11

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030123481  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030123481 A1

TITLE: Enhancements for TCP performance enhancing proxies

PUBLICATION-DATE: July 3, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Neale, Jason	Montreal		CA	
Pether, Andrew M.	Pincourt		CA	
Mohsen, Abdul-Kader	Montreal		CA	
Begin, Guy	Montreal		CA	

US-CL-CURRENT: 370/466; 370/400

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 8. Document ID: US 20020024675 A1

L14: Entry 8 of 11

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020024675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020024675 A1

TITLE: Self-referenced tracking

PUBLICATION-DATE: February 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Foxlin, Eric	Arlington	MA	US	

US-CL-CURRENT: 356/620

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 9. Document ID: US 6879886 B2

L14: Entry 9 of 11

File: USPT

Apr 12, 2005

US-PAT-NO: 6879886

DOCUMENT-IDENTIFIER: US 6879886 B2

TITLE: Flight guidance system providing perspective flight guidance symbology

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 10. Document ID: US 6757068 B2

L14: Entry 10 of 11

File: USPT

Jun 29, 2004

US-PAT-NO: 6757068



DOCUMENT-IDENTIFIER: US 6757068 B2

TITLE: Self-referenced tracking

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. Do
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Search Results - Record(s) 11 through 11 of 11 returned.

☐ 11. Document ID: EP 1462767 A1, US 20030222887 A1

Using default format because multiple data bases are involved.

L14: Entry 11 of 11

File: DWPI

Sep 29, 2004

DERWENT-ACC-NO: 2004-141793

DERWENT-WEEK: 200463

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TITLE: Aircraft guidance system, has tunnel generator that receives navigation control input to find flight plan that defines virtual tunnel to be output in display, where control input is difference of current and desired aircraft state

INVENTOR: HARRIS, K S; WILKINS, R R

PRIORITY-DATA: 2003US-0376869 (February 27, 2003), 2001US-0975624 (October 11, 2001), 2003US-0376914 (February 27, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1462767 A1</u>	September 29, 2004	E	000	G01C023/00
<u>US 20030222887 A1</u>	December 4, 2003		026	G09G005/00

INT-CL (IPC): G01 C 23/00; G09 G 5/00

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KVMC</a>	<a href="#">Draw D</a>
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**Search Results** - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20040066441 A1

**Using default format because multiple data bases are involved.**

L3: Entry 1 of 4

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040066441

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040066441 A1

TITLE: Identification card printer-assembler for over the counter card issuing

PUBLICATION-DATE: April 8, 2004

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Jones, Robert	Andover	MA	US	
Bi, Daoshen	Boxborough	MA	US	
Mailloux, Dennis	Westminster	MA	US	

US-CL-CURRENT: 347/101

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw. Data
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☒ 2. Document ID: US 20030171939 A1

L3: Entry 2 of 4

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171939

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030171939 A1

TITLE: Method and apparatus for prescreening passengers

PUBLICATION-DATE: September 11, 2003

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Yagesh, John Paul	Gaithersburg	MD	US	
Yagesh, Christopher John	Alexandria	VA	US	
Bender, Christopher Joseph	Arlington	VA	US	

US-CL-CURRENT: 705/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw. De
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☐ 3. Document ID: US 20030093187 A1

L3: Entry 3 of 4

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093187

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093187 A1

TITLE: PFN/TRAC system™ FAA upgrades for accountable remote and robotics control to stop the unauthorized use of aircraft and to improve equipment management and public safety in transportation

PUBLICATION-DATE: May 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Walker, Richard C.	Waldorf	MD	US	

US-CL-CURRENT: 701/1; 701/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw. De
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☐ 4. Document ID: US 20030071743 A1

L3: Entry 4 of 4

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030071743

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030071743 A1

TITLE: Aircraft monitoring and incident management system

PUBLICATION-DATE: April 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seah, Moon-Ming	Singapore		SG	
Ng, Chong-Khim	Singapore		SG	
Cheong, Yue-Pui	Singapore		SG	
Lau, Thiam-Beng	Singapore		SG	
Lim, Tau-Fuie	Singapore		SG	
Quek, Gim Pew	Singapore		SG	
Hunter, Richard	Singapore		SG	
Lim, Chong-Jin	Singapore		SG	
Kwan, Yui	Singapore		SG	
Lim, Siew-Lang	Singapore		SG	
Lee, Fook-Sun	Singapore		SG	

Oon, Tik-Bin	Singapore	SG
Ng, Chee-We	Singapore	SG
Tay, Eng Huat	Singapore	SG
Chong, Chee Chung	Singapore	SG
Ng, Yew Liam	Singapore	SG

US-CL-CURRENT: [340/945](#); [340/540](#), [340/573.1](#), [340/574](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des
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L3: Entry 1 of 4

File: PGPB

Apr 8, 2004

DOCUMENT-IDENTIFIER: US 20040066441 A1

TITLE: Identification card printer-assembler for over the counter card issuing

Application Filing Date:20030512Cross Reference to Related Applications Paragraph:

[0005] Use of Pearlescent and Other Pigments to Create Security Documents (application Ser. No. 09/969,020, Attorney Docket No. P0537D, Inventors Bentley Bloomberg and Robert L. Jones, filed Oct. 2, 2001);

Cross Reference to Related Applications Paragraph:

[0010] Multiple Image Security Features for Identification Documents and Methods of Making Same (application Ser. No. 10/325,434, Attorney Docket No. P028D, filed Dec. 18, 2002--Inventors Brian Labrec, Joseph Anderson, Robert Jones, and Danielle Batey);

Cross Reference to Related Applications Paragraph:

[0013] Laser Etched Security Features for Identification Documents and Methods of Making Same (Application No. 10,330,033, Attorney Docket No. P0736D, filed Dec. 24, 2002--Inventors George Theodossiou and Robert Jones).

Cross Reference to Related Applications Paragraph:

[0019] Systems and Methods for Recognition of Individuals Using Combination of Biometric Techniques (Application No. 60/418,129, Attorney Docket No. P0698D, filed Oct. 11, 2002--Inventors James V. Howard and Francis Frazier);

Cross Reference to Related Applications Paragraph:

[0022] Integrating and Enhancing Searching of Media Content and Biometric Databases (Application No. 60/451,840, Attorney Docket No. P0803, filed Mar. 3, 2003);

Summary of Invention Paragraph:

[0027] The present invention generally relates to identification and security documents, and in particular, relates to identification document printing and assembly systems and methods.

Summary of Invention Paragraph:

[0029] Identification documents (hereafter "ID documents") play a critical role in today's society. One example of an ID document is an identification card ("ID card"). ID documents are used on a daily basis--to prove identity, to verify age, to access a secure area, to evidence driving privileges, to cash a check, and so on. Airplane passengers are required to show an ID document during check in, security screening, and prior to boarding their flight. In addition, because we live in an ever-evolving cashless society, ID documents are used to make payments, access an ATM, debit an account, or make a payment, etc.

Summary of Invention Paragraph:

[0030] (For the purposes of this disclosure, ID documents are broadly defined herein, and include, e.g., credit cards, bank cards, phone cards, passports, driver's licenses, network access cards, employee badges, debit cards, security

cards, visas, immigration documentation, national ID cards, citizenship cards, social security cards, security badges, certificates, identification cards or documents, voter registration cards, police ID cards, border crossing cards, legal instruments, security clearance badges and cards, gun permits, gift certificates or cards, membership cards or badges, etc., etc. Also, the terms "document," "card," "badge" and "documentation" are used interchangeably throughout this patent application.).

Summary of Invention Paragraph:

[0033] Identification documents, such as ID cards, having printed background security patterns, designs or logos and identification data personal to the card bearer have been known and are described, for example, in U.S. Pat. No. 3,758,970, issued Sep. 18, 1973 to M. Annenberg; in Great Britain Pat. No. 1,472,581, issued to G. A. O. Gesellschaft Fur Automation Und Organisation mbH, published Mar. 10, 1976; in International Patent Application PCT/GB82/00150, published Nov. 25, 1982 as Publication No. WO 82/04149; in U.S. Pat. No. 4,653,775, issued Mar. 31, 1987 to T. Raphael, et al.; in U.S. Pat. No. 4,738,949, issued Apr. 19, 1988 to G. S. Sethi, et al.; and in U.S. Pat. No. 5,261,987, issued Nov. 16 1993 to J. W. Luening, et al. All of the aforementioned documents are hereby incorporated by reference. Laminated ID documents are used as certificates of citizenship, identification cards, driver's licenses, member cards, passports, transaction cards, national identification cards, etc., etc., etc

Summary of Invention Paragraph:

[0045] Centrally issued identification documents can be produced from digitally stored information and generally comprise an opaque core material (also referred to as "substrate"), such as paper or plastic, sandwiched between two layers of clear plastic laminate, such as polyester, to protect the aforementioned items of information from wear, exposure to the elements and tampering. The materials used in such CI identification documents can offer the ultimate in durability. In addition, centrally issued digital identification documents generally offer a higher level of security than OTC identification documents because they offer the ability to pre-print the core of the central issue document with security features such as "micro-printing", ultra-violet security features, security indicia and other features currently unique to centrally issued identification documents.

Summary of Invention Paragraph:

[0048] OTC identification documents of the types mentioned above can take a number of forms, depending on cost and desired features. Some OTC ID documents comprise highly plasticized poly(vinyl chloride) or have a composite structure with polyester laminated to 0.5-2.0 mil (13-51 mu.m) poly(vinyl chloride) film, which provides a suitable receiving layer for heat transferable dyes which form a photographic image, together with any variant or invariant data required for the identification of the bearer. These data are subsequently protected to varying degrees by clear, thin (0.125-0.250 mil, 3-6 mu.m) overlay patches applied at the printhead, holographic hot stamp foils (0.125-0.250 mil 3-6 .mu.m), or a clear polyester laminate (0.5-10 mil, 13-254 .mu.m) supporting common security features. These last two types of protective foil or laminate sometimes are applied at a laminating station separate from the printhead. The choice of laminate dictates the degree of durability and security imparted to the system in protecting the image and other data.

Summary of Invention Paragraph:

[0049] As those skilled in the art know, ID documents such as drivers licenses can contain information such as a photographic image, a bar code (which may contain information specific to the person whose image appears in the photographic image, and/or information that is the same from ID document to ID document), variable personal information, such as an address, signature, and/or birthdate, biometric information associated with the person whose image appears in the photographic image (e.g., a fingerprint), a magnetic stripe (which, for example, can be on the a

side of the ID document that is opposite the side with the photographic image), and various security features, such as a security pattern (for example, a printed pattern comprising a tightly printed pattern of finely divided printed and unprinted areas in close proximity to each other, such as a fine-line printed security pattern as is used in the printing of banknote paper, stock certificates, and the like).

Summary of Invention Paragraph:

[0052] FIGS. 1 and 2 illustrate a front view and cross-sectional view (taken along the A-A line), respectively, of an exemplary prior art OTC identification document 1. In FIG. 1, the prior art OTC ID document 1 includes a photographic image 2, personal information 3, and a security pattern 3 (for example, a printed pattern comprising a tightly printed pattern of finely divided printed and unprinted areas in close proximity to each other, such as a fine-line printed security pattern as is used in the printing of banknote paper, stock certificates, and the like). If desired, the security pattern 4 can be part of different pattern designs (e.g., filigree, guilloche) and can be printed in different inks (e.g., UV ink).

Summary of Invention Paragraph:

[0054] One type of OTC identification document, available from the assignee of the present invention is a so-called "Desktop Security Card (DSC), which has a core layer (also referred to as "substrate") formed from a sheet of an opaque printable material, such as an opaque sheet of printable silica-filled polyolefin, such as the materials sold commercially by PPG Industries, Inc., Pittsburgh, Pa. under the Registered Trade Mark "TESLIN". In the currently fielded versions of the DSC card, printing of the ID document in OTC environments is achieved with D2T2 printers. Printing quality of the printed image may depend at least on an ability of a mechanical printer system to accurately register a printing sequence, e.g., yellow, magenta, cyan, and black. Commonly assigned U.S. Pat. No. 6,066,594 describes this type of OTC identification document in greater detail, and the contents of this patent are incorporated hereto by reference in their entirety.

Summary of Invention Paragraph:

[0070] The first ink jet printer is operable to print first information on a top surface of a substrate sheet. The second ink jet printer is operable to print second information on a bottom surface of a substrate sheet, the second ink jet printer being constructed and arranged relative to the first ink jet printer such that the substrate sheet can travel along a predetermined path and have its top side printed by the first ink jet printer and its bottom side printed by the second ink jet printer without having to change the orientation of the substrate along the predetermined path. The laminator is operable to receive the twice printed substrate sheet and to provide a top laminate in contact with the top surface of the twice printed substrate sheet and a bottom laminate in contact with the bottom surface of the twice printed substrate sheet, the laminator laminating the top laminate to the top surface of the twice printed substrate sheet and laminating the bottom laminate to the bottom surface of the twice printed substrate sheet, the laminated, twice printed substrate sheet comprising the identification document. In a further embodiment, the first and second ink jet printers are constructed and arranged to print the substrate sheet at substantially the same time.

Summary of Invention Paragraph:

[0073] In a further embodiment, we provide a method of assembling an identification document in an intermittent assembling environment. Ink jet printing is controlled so as to print first information on a first surface of the document substrate and to print second information on a second surface of the document substrate, the second information including at least one set of data that is unique with respect to the first information. Lamination of the printed document substrate is controlled so as to provide a top laminate in contact with the first surface of the document substrate and to provide a bottom laminate in contact with the second surface of the document substrate. Alignment of the laminated document substrate is



controlled through at least form feed holes placed along at least one of an edge of the document substrate and a carrier web that carries the top or bottom laminate, wherein the alignment relates to at least one of cutting, material registration and the placement of security features on the laminated document substrate.

Detail Description Paragraph:

[0093] While ink jet printers have been available for some time now, their use in ID card printing has been limited due to several factors. Common dye based inks, as traditionally used in ink jet printers, can lack the stability to resist fading over time or under prolonged exposure to sunlight. In laminated ID cards, it is preferred that ink that is deposited on a substrate (e.g., a TESLIN sheet) not interferes with the bonding of the protective laminates that are often coupled to the substrate. Any interference may defeat security provided by the laminates or long life of the resultant ID document.

Detail Description Paragraph:

[0103] Although not required for the instant invention, the ID document 10 may include a photograph 14 and various printed information 12, e.g., such as data, textual information, graphics, bar codes, biometric information (e.g., fingerprint), personal information (e.g., name, address, etc.), or the like. At least a portion of the photograph and/or printed information is printed on the substrate 21 with ink jet ink printing 29. In at least one embodiment, both sides of substrate 21 can receive printing 29, such as ink jet color printing or ink jet black and white printing. In some embodiments, information may also be optically or magnetically stored on recording media (e.g., magnetic stripe 27) carried by one or both of the laminates 23, 25.

Detail Description Paragraph:

[0105] Any or all of the printed information and/or images on the substrate may also include one or more built in security features, as well, to help reduce identity fraud. For example, in one embodiment of the invention, portions of the ID document 10, such as an image or a bar code, can include a digital watermark. Digital watermarking is a process for modifying physical or electronic media to embed a machine-readable code therein. The media may be modified such that the embedded code is imperceptible or nearly imperceptible to the user, yet may be detected through an automated detection process. The code may be embedded, e.g., in a photograph, text, graphic, image, substrate or laminate texture, and/or a background pattern or tint of the photo-identification document. The code can even be conveyed through ultraviolet or infrared inks and dyes.

Detail Description Paragraph:

[0126] In at least one embodiment, the system of FIG. 5 includes additional components such as a magnetic stripe encoder (writer) 222 for when the laminate (or substrate) includes a magnetic stripe suitable for carrying data. The magnetic stripe encoder 222 encodes (or writes) data within the magnetic strip. MagTek, Inc. in Carson, Calif. 90746 USA, provides suitable magnetic stripe technology, among other companies. The encoded data can be related to the printed information, or can include information such as biometric information, personal information, access permissions, privileges, etc.

Detail Description Paragraph:

[0127] In at least one embodiment, the system of FIG. 5 includes a residual material accumulator 220 to accumulate scrap or residual web laminate. For example, the residual material accumulator 220 can be a scrap rewinder, as shown in FIG. 5. The accumulator 220 may include or cooperate with a residual rewinder to rewind residual web laminate. A conveyer belt or other ejection mechanism 224 can be provided to eject the card from the system 200. Alternatively, accumulator 220 includes a shredder. An advantage of a shredder is that it reduces the size of residual materials, and destroys any residual security features that remain on the accumulated materials.

Detail Description Paragraph:

[0159] Third, a dimensionally stable carrier web can be provided with form feed holes (or perforated holes or notches) punched or otherwise provided in the edges of the carrier web. For example, FIG. 12 is a perspective illustration of a laminator roll assembly 680 (including, e.g., rolls 206a, 206b, 215 (all rolls), 216a, and 216b) adapted to be used with carriers having form feed holes. Those skilled in the art will appreciate that the laminator roll assembly 680 is merely illustrative and that many different ways of using form feed holes with rollers are, of course, usable. The carrier web then not only provides laminate transportation, e.g., by moving the carrier web through the lamination and cutting processes using pin or notch engagements, but the carrier web can also be used to accurately register laminates with respect to each other and to a substrate sheet. Providing form feed holes in the substrate sheet further enhances this registration process. The form feed holes provide enhanced registration of the substrate with the top and bottom laminate patches (in comparison to edge guiding or optical registration methods). The form feed holes also enhance registration of security features provided to the laminate surface, if desired, along with improving registration for the cutter 218. We can print information closer to a substrate edge as our cutting registration improves.

Detail Description Paragraph:

[0176] Laser cutting can also be used. Some factors to consider when using a laser cutter are avoiding card edge char, addressing roughness of a cut card edge, the personal safety requirements needed for such devices, and the environmental handling requirement of the laser off-gases.

## CLAIMS:

35. A system to intermittently assemble identification documents, an identification document comprising a substrate with a top surface and a bottom surface, the top and bottom surfaces being laminated, said system comprising: a first ink jet printer operable to print first information on a top surface of a substrate sheet; a second ink jet printer to operable to print second information on a bottom surface of a substrate sheet, the second ink jet printer being constructed and arranged relative to the first ink jet printer such that the substrate sheet can travel along a predetermined path and have its top side printed by the first ink jet printer and its bottom side printed by the second ink jet printer without having to change the orientation of the substrate along the predetermined path; and a laminator operable to receive the twice printed substrate sheet and to provide a top laminate in contact with the top surface of the twice printed substrate sheet and a bottom laminate in contact with the bottom surface of the twice printed substrate sheet, the laminator laminating the top laminate to the top surface of the twice printed substrate sheet and laminating the bottom laminate to the bottom surface of the twice printed substrate sheet, the laminated, twice printed substrate sheet comprising the identification document.

46. A method of assembling an identification document in an intermittent assembling environment, said method comprising the steps of: controlling ink jet printing of an identification document substrate so as to print first information on a first surface of the document substrate and to print second information on a second surface of the document substrate, the second information including at least one set of data that is unique with respect to the first information; controlling lamination of the printed document substrate so as to provide a top laminate in contact with the first surface of the document substrate and to provide a bottom laminate in contact with the second surface of the document substrate; and controlling alignment of the laminated document substrate through at least form feed holes placed along at least one of an edge of the document substrate and a carrier web that carries the top or bottom laminate, wherein the alignment relates to at least one of cutting, material registration and the placement of security